



Early Journal Content on JSTOR, Free to Anyone in the World

This article is one of nearly 500,000 scholarly works digitized and made freely available to everyone in the world by JSTOR.

Known as the Early Journal Content, this set of works include research articles, news, letters, and other writings published in more than 200 of the oldest leading academic journals. The works date from the mid-seventeenth to the early twentieth centuries.

We encourage people to read and share the Early Journal Content openly and to tell others that this resource exists. People may post this content online or redistribute in any way for non-commercial purposes.

Read more about Early Journal Content at <http://about.jstor.org/participate-jstor/individuals/early-journal-content>.

JSTOR is a digital library of academic journals, books, and primary source objects. JSTOR helps people discover, use, and build upon a wide range of content through a powerful research and teaching platform, and preserves this content for future generations. JSTOR is part of ITHAKA, a not-for-profit organization that also includes Ithaka S+R and Portico. For more information about JSTOR, please contact support@jstor.org.

Tejent passes near Seraks, but is generally dry: its bed is about half a mile wide. The water from the melting snows and heavy rains is retained in large reservoirs closed by sluices, and distributed by canals for irrigation. Wells reach water at a depth of twenty feet.

The levelling carried on by the party has demonstrated, that, in leaving the Caspian Sea, there is not a general rise of the surface. At the wells of Aydine, several points are notably lower than the surface of the Caspian; and the whole region between the latter and the wells is a dried up arm of the sea. The aspect of the observations leads one to believe that they will show, when worked up, that there are many points in the sandy deserts between the Tekke oasis and Khiva which are lower than the Caspian; and it is already certain that the alleged former junction of the Tejent and Murial Rivers with the Oxus was an impossibility, and that, though nearer to each other, they emptied directly into the Caspian. Further work will be necessary to show the exact origin of the depressions met with in different parts of the steppes, and which have been taken for beds of ancient water-courses.

The expedition terminated its work at Seraks, and returned to Askabad by a different route.

PALMS.

SOME interesting details respecting these princes of the vegetable kingdom, as Linnaeus called them, are to be found in Sir Joseph Hooker's last report on the progress and condition of the Royal gardens at Kew. The extent to which they have recently been brought into cultivation is noteworthy.

Miller, in his Gardener's dictionary, edition of 1731, knew of seven species; but only two were generally known in conservatories, — the dwarf fan-palm of the south of Europe, and the date. Aiton's Hortus Kewensis, in the second edition (1813), enumerates only 24 species. The Loddiges, great cultivators of palms, who possessed in their day much the largest collection known, enumerate 210 species in their nursery catalogue of the year 1825. In the Herrenhausen conservatories, Hannover, Wendland had assembled 287 species in 1835, and 445 in 1882. This is the largest collection in the world; but the noblest must be that of the Botanical gardens of Buitenzorg, Java, which, in 1860, boasted of 273 species, 'all standing naked in the open air.'

It is only when the literature of the order is brought together systematically, that we appreciate the extent and the variety of palms. In the new Genera plantarum, Sir Joseph Hooker characterizes 132 genera of true palms, and indicates about 1,100 species.

Our readers may like to know what palms are indigenous to the United States, and what names they now bear. Without counting one or two tropical species which grow in southern Florida, and which are outlying Cuban and Bahaman species, we have two true palmettos, *Sabal palmetto*, and *S. Adansoni*; the blue palmetto, *Rhapidophyllum hystrix* of Wend-

land; the saw palmetto, *Serenoa serrulata* of Hooker. This is the old *Sabal serrulata*, upon which Hooker has recently founded a new genus, dedicating it to our associate, Sereno Watson (*Palma qui meruit ferat*), there being already a *Watsonia* in honor of an earlier botanist of this name. Finally we have, just beyond our national borders, namely, on the islands off Lower California, a palm of a peculiar genus, instituted by Mr. Sereno Watson, the *Erythea edulis*; and in southern California the elegant *Washingtonia bilifera*, with which Wendland has complimented our country by naming this palm in honor of its first president. The only other president so distinguished is Jefferson. *Jeffersonia diphylla* is one of our choicest spring flowers.

THE DEARBORN OBSERVATORY.

THE report of Prof. G. W. Hough, the director of the Dearborn observatory, to the board of directors of the Chicago astronomical society, exhibits an encouraging state of activity in that establishment. The eighteen-inch equatorial and the Repsold meridian circle have been kept in excellent order and in constant use; though it does not appear, from the report, that this latter instrument has been employed in any service where a smaller and less adequately equipped instrument would not equally have sufficed. The objects specially studied with the great telescope were the great comet of 1882, difficult double stars, and the planet Jupiter, in addition to which a few miscellaneous observations were made. The comet-observations are of interest as throwing some light on the question of the breaking-up of this body into three separate and distinct fragments, and the testimony of so powerful a glass is of high importance. Professor Hough's observations, from Oct. 5, 1882, to March 6, 1883, are all consistent with regard to the apparent separation of these three centres of condensation; but they were all the time connected by matter of less density, so that no complete separation took place between the parts of the head.

Sixty-six new double stars were discovered during the year, most of which are difficult objects, and can be measured only when the seeing is good. Professor Hough estimates that not more than one observing night in three is suitable for such observations. In the search for D'Arrest's comet, six new nebulae were detected, three of which were found by Mr. Burnham. The companion to Sirius was measured on a goodly number of nights by both these observers. Professor Hough expects this object to be, in a few years, entirely beyond the reach of all telescopes except the largest ones, as the distance between the components (now nine seconds of arc) is diminishing about three-tenths of a second annually.

The great red spot on the planet Jupiter, first noticed in 1878, and which has been, until the past year, of a reddish-brick color, has gradually grown paler, until, at the present time, it is barely visible. Professor Hough ventures the opinion that it cannot be seen much longer in any telescope. Its stability has been remarkable, not having changed very ma-